

AMENDMENTS TO THE SPECIFICATION

Please replace Page 3, lines 1-11 with the following paragraph rewritten in amendment format:

A mobile phone having additional functions such as a music function or a television function in addition to a telephone communication function is powered by a battery contained in the mobile phone. A battery capacity is detected by monitoring a terminal voltage of the battery. When a residual battery capacity becomes lower than a first predetermined level, a warning is given to a user if the additional function is being operated. This warning is displayed on a display panel of the mobile phone. When the additional function is a music function, the warning is superposed superimposed on music sounds as warning sounds.

Please replace Page 3, lines 19-27 and Page 4, lines 1-5 with the following paragraph rewritten in amendment format:

A2
In this manner, operation of the additional function is restricted when the battery capacity becomes lower than a certain level to keep the communication function operable for a longer time. The warning indicating the battery capacity is not sufficiently high is given to the user when the additional function is under operation. Therefore, the user is not bothered by unnecessary warnings. The additional function may be continued to be operated if the user so desires even after the warning is given. In the case where the additional function is a music function, the warning is given to the user as warning sounds superposed superimposed on the music sounds being played. In this manner the warning is effectively given to the user without fail.

Please replace Page 6, lines 23-27 and Page 7, lines 1-14 with the following paragraph rewritten in amendment format:

The controller 90 composed of a microcomputer and other components controls the music function and monitors the battery voltages among other things. Referring to the flowchart shown in FIG. 3, processing of the music function will be described. Upon starting power supply, the flag MQ indicating permission of operation of the music function and the flag MF indicating that the music function is activated are initialized and reset. Processing of the music function starts upon ~~pushing a function key F18 inputting an initializing signal~~ on the keyboard 20 during a call waiting period. At step S200, whether the flag MQ is reset (MQ = 0 indicates that operating the music function is permitted) is checked. If the music function is permitted (MQ = 0), the process moves to step S210, where the flag MF is set (MF = 1) to activate the music function. Then, the process moves to step S220 where music data stored in the memory 80 are read out. Then, the read out data are fed to the voice processor 50 at step S230, and the music sounds are output from the earphone 40c or the receiver 40b.

Please replace Page 7, lines 15-27 and Page 8, lines 1-7 with the following paragraph rewritten in amendment format:

If the flag MQ is set to 1 at step S200 (the music function is not permitted), the process moves to step S240, where a warning that the music function is restricted is displayed on the display panel 30. This warning is displayed every time the ~~function key F18 is pushed~~ initializing signal for the music function is inputted under this situation.

*Alt
Cont.*

Then, the process moves to step S250, where an inquiry to the user asking whether the user wants to operate the music function or not under this situation is displayed on the display panel 30. If the user selects to operate the music function by pushing a key "2", the process moves to step S210. This means that the music function is operated by the user's choice even if the battery voltage is lower than V01 (explained later in detail). If the user selects not to operate the music function by pushing a key "1" at step S250, the music function is not operated, and the process proceeds to END. It is possible to eliminate step S250 to immediately prohibit the music function without inquiring the user's intention when the warning to restrict the music function is displayed at step S240.

Please replace Page 10, lines 8-27 and Page 11, lines 1-5 with the following paragraph rewritten in amendment format:

*AS
Cont.*

The battery voltage monitoring process as an embodiment of the present invention will be described with reference to FIGS. 5A and 5B. In the following description, the relation among various voltage levels is: $V13 < V12 < V11 < V01 < V00$. A voltage V01 is another threshold voltage used in this embodiment as a third threshold voltage in addition to the first threshold voltage V11 and the second threshold voltage V12. The third threshold voltage V01 is a voltage level at which the music function is usable. At step S300, whether the battery voltage V is lower than V01 is determined. If the battery voltage V is lower than V01, the process proceeds to step S310. At step S310, whether the music function is operated ($MF = 1$) is checked. If the music function is operated, the process moves to step S320, where warning sounds are superposed

A5
Contd.

superimposed on the music sounds being played to output from the earphone 40c. The warning sounds may be a series of sounds, such as "Pi, Pi, Pi...." Then, at step S330, the flag MQ is set to "1" to stop the music output the same to the earphone 40c. At step S340, whether the battery voltage V is higher than V00 is checked. If it is higher than V00, the process moves to step S350 (FIG. 5B), where the flag MQ is reset to "0" (MQ = 0) to cancel the restriction of the music function. At this stage, the music function can be operated upon ~~pushing the key F18~~ inputting the initializing signal.

Please replace Page 11, lines 6-17 with the following paragraph rewritten in amendment format:

If it is found that the music function is not operated (MF = 0) at step S310, the process moves to step S380, where the flag MQ is set to "1" to prohibit operation of the music function. At this stage, the music function cannot be operated if the ~~key F18 is pushed~~ initializing signal is inputted. Then, the process proceeds to step S390 (FIG. 5B). At step S390 whether the battery voltage V is higher than V00 is checked. If it is higher than V00 ($V > V00$), the process moves to step S350. On the other hand, if the battery voltage V is lower than V00, the process moves to step S100. Steps S100 – S160 are the same as those explained above with reference to FIG. 4.

A6

Please replace Page 11, lines 18-27 and Page 12, lines 1-7 with the following paragraph rewritten in amendment format:

A7
Cont.

The third threshold voltage V01 which is higher than the first and the second threshold voltages ($V01 > V11 > V12$) is newly set in this embodiment to restrict the

A
Concl

music function when the battery voltage is lowered to the level of V01. Therefore, the battery capacity is effectively saved for the communication function, compared with the comparative example described above with reference to FIG. 4. FIG. 6 illustrates a period of time during which the communication function is operable, after the battery voltage lowered to the level of the third threshold voltage V01 and the music function is restricted. In this manner, the period of time available for the communication function is prolonged. In addition, since the warning for the battery voltage decrease is given to a user by warning sounds superposed superimposed on the music being played, the user can easily recognize the battery voltage decrease while listening to the music.
